

Berkeley, CA 94704 • adroz62701@berkeley.edu • (408) 504-4607

Education

UNIVERSITY OF CALIFORNIA, BERKELEY

Pure Mathematics, Molecular and Cell Biology

GPA: 3.77, MCAT: 521

Relevant Coursework: Structure and Interpretation of Computer Programs, Linear Algebra and Differential Equations, Numerical Analysis, Ordinary Differential Equations, Principles and Techniques of Data Science

Berkeley, CA

August 2019 - Spring 2023

UNIVERSITY OF CALIFORNIA, BERKELEY SCHOOL OF INFORMATION

Masters in Information and Data Science

Berkeley, CA

September 2023 - August 2024

Experience

KAISER PERMANENTE, DIVISION OF RESEARCH

Oakland, CA

NACAM Clinical Trial Research Intern

May 2021 - Present

- Conduct daily data analysis on enrollment progress and predict trial end times using linear regression analysis
- Using Python, created an automated calendar that auto-updates patients' activity status
- Present monthly updates with visual aids created with Python and Microsoft Excel to keep the team informed on the progress of the trial, as well as suggest efficiency improvement techniques based on my analyses

KAISER PERMANENTE, DIVISION OF RESEARCH

Oakland, CA

Biopsy Quality Improvement Study Research Intern

August 2021 - Present

- Review 5,000 medical charts of patients who underwent renal biopsies in the last 10 years in Northern California Kaiser Permanente Hospitals
- Conduct Exploratory Data Analysis of reviewed charts
- Clean data using Python and Microsoft Excel to prepare for multivariable regression analysis

Work and Activities

UNIVERSITY OF CALIFORNIA, BERKELEY, DEPARTMENT OF MATHEMATICS

Berkeley, CA

Reader, Introduction to Analysis

January 2021 - Present

- Work closely with the Introduction to Analysis course staff to create rubrics for, and grade assessments
- Coached students through their assignments to ensure their understanding of mathematical analysis

INTRODUCTION TO SURGERY DECAL

Berkeley, CA

Instructor

August 2020 – May 2022

- Taught suturing techniques to a 20-person workshop-based course after creating a lesson plan and syllabus
- Adapted the course syllabus during the 2020-2021 academic year to a guest speaker-based course due to the COVID pandemic, and coordinated 14 guest lectures from surgeons across the United States on Zoom

DELTA SIGMA SORORITY

Berkeley, CA

Director of Finance, Director of Risk Management

January 2021 - Present

- Managed and constructed a yearly \$150,000 budget to support philanthropic and social activities
- Established four \$1,000 scholarships for first-generation and low-income students

ALAMEDA HEALTH SYSTEM

Oakland and San Leandro, CA

Emergency Department Volunteer, Lead Volunteer

August 2019 - December 2022

- Volunteer every week for 4 hours at Highland Hospital and San Leandro Hospital Emergency Departments, assisting nurses and physicians with procedures, rounding on patients, and participating in trauma codes
- Worked with San Leandro Hospital Emergency Department (ED) providers and directors to create a new volunteer department to help fill gaps in care, created a training manual, and trained new volunteers for the ED

Skills and Interests

Technical: Python, Java, MATLAB, Scheme, Microsoft Office Suite, Benchling, ImageJ, ApE

Languages: Fluent Russian, Conversational French

Interests: Hiking, Backpacking, Knitting, SCUBA, Skiing